

Wisconsin

Building Products Evaluation

Material

Erosion Control Product
Trade Name: Silt Sock

Manufacturer

Silt Sock Erosion Control Products
329 Elizabeth St.
Lodi, WI 53555

Evaluation # 20109022

Expiration: April 31, 2016

SCOPE OF EVALUATION

GENERAL: This report evaluates the use of 8 inch diameter Silt Sock manufactured by Silt Sock Erosion Control Products, a Division of Peter Tonn Enterprises LLC.

The (UDC) requirements below are in accordance with The (UDC) requirements below are in accordance with the current **Wisconsin Uniform Dwelling Code, CHS. COMM 20-25.:**

- **Perimeter Control:** An 8 inch diameter Silt Sock was evaluated for use as a **sediment control device for use as a slope interruption device and on perimeters of construction sites for one and two family dwellings** in accordance with **s. Comm 21.125 (1) (d.)** and the department's **Manufactured Perimeter Control and Slope Interruption Departmental Approval Process** document (Rev 03/2009).

DESCRIPTION AND USE

This product has a dry diameter of 8 inches, and is available in lengths of 16 feet and 20 feet. This approval also applies to custom lengths of the product. The product is made of a knitted tubular fabric filled with wood chips of various sizes from 1/4" to 2" in length and width. The

products tested had an average dry density of 19.92 lbs/ft³. Sock fill material is derived from ground untreated waste lumber including engineered wood products (OSB: Oriented Strand Board, plywood). The product is a tubular shaped filled filter sock that impedes the flow of water and sediment across and off of a construction site when properly installed.

The knitted tubular fabric material used for this product is identified by its manufacturer as **8DB SS** tubular fabric made from **polypropylene** yarn. Information provided from the manufacturer states that the **ASTM D6241 test method** using a 50mm (2") **Static Puncture test** measures the strength of the fabric at 2400 Newtons which is equivalent to 539 lbs. (171 lbs. per square inch).

TEST RESULTS

The Silt Sock Erosion Control Product was tested by a third party in accordance with the testing protocol standards established in department's document entitled "**Manufactured Perimeter Control and Slope Interruption Departmental Approval Process**". Testing was performed in accordance with these protocols at the Sediment Control Facility at ErosionLab located in Rice Lake, WI. ErosionLab is owned and operated by the American Excelsior Company of Rice Lake, WI. Testing methods and data analyses were performed as per the protocols described in the publication, "**Testing, Analyses, and Performance Values for Slope Interruption and Perimeter Control BMPs**" authored by Kurt Kelsey, Tony Johnson, and Ryan Vavra (IECA, 2006). The third-party test report and analysis was prepared by Kurt Kelsey of ErosionLab, Rice Lake, WI.

The product was tested on a loam texture soil (USDA Soil Texture Classification) at a slope of 12.5%, and installed in accordance with the requirements established in the department's document entitled "**Wisconsin Department of Commerce Installation Stipulations for Approved Products (Rev 03/09)**" and the Wisconsin Department of Natural Resources Conservation Practices Technical Standard "**Interim Manufactured Perimeter Control and Slope Interruption Products (1071) (WDNR 11/2010)**". The test protocol and results were deemed satisfactory by the department.

LIMITATIONS OF APPROVAL

- The Silt Sock Erosion Control Product shall be installed in accordance with all of the criteria established in the department's document entitled "**Wisconsin Department of Commerce Installation Stipulations for Approved Products**".
- Fill material used in the Silt Sock Erosion Control Product shall be made up of ground untreated wood material that of the same size and density as that which was used in the products tested for this product approval.
- Knitted sock material is limited to that which has the same properties as used in the products tested for this product approval. **This approval is null and void if the sock material has been substantially changed from the composition so submitted and tested.**
- Fill material that includes waste from ground engineered wood products shall be from a supplier that has received (and maintains) a **Low Hazard Waste Grant of Exemption** issued by the Waste and Materials Management Section of the

Division of Air and Waste, Wisconsin Department of Natural Resources. **This approval is null and void if the this fill material is from a supplier that does not hold this exemption from the Department of Natural Resources, or if the fill material has been substantially changed from the composition so submitted and tested.**

- This product is not approved for use on slopes greater than 12.5 percent.

This approval will be valid through **April 31, 2016**, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the department. The Wisconsin Building Product Evaluation number must be provided when plans that include this product are submitted for review.

DISCLAIMER

The department is in no way endorsing or advertising this product. This approval addresses only the specified applications for the product and does not waive any code requirement not specified in this document.

Revision Date:

Approval Date: April 25, 2011 By: _____

Lenny Kanter
Engineering Consultant
Division of Safety and Buildings
Wisconsin Department of Commerce
608-261-6541
robert.kanter@wi.gov

Attachment A:

Attachment B: